



# APPENDICES

Photo on reverse: Cascade Falls and waterworks

# APPENDICES

## APPENDIX LISTING

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**APPENDIX A**  
**Location of EIR-Required Content in the General Plan/EIR**

<b>CEQA Guidelines Content</b>	<b>Location in General Plan/EIR</b>
Section 15122. Table of Contents or Index	Table of Contents
Section 15123. Summary	Executive Summary
Section 15124. Project Description	Ch. 4 Park Plan (description) Sec. 5.3 Project Description (summarized) Ch. 1 Introduction (information about project objective and general plan process)
Section 15125. Environmental Setting	Ch. 2 Existing Conditions Sec. 5.4 Environmental Setting
Section 15126. Consideration and Discussion of Environmental Impacts	Ch. 5 Environmental Analysis
(a) (and Section 15126.2) Significant Environmental Effects of the Proposed Project	Sec. 5.6 Environmental Impacts and Mitigation
(b) Significant Environmental Effects Which Cannot be Avoided if the Proposed Project is Implemented	Sec. 5.7 Other CEQA Considerations, Unavoidable Significant Environmental Effects
(c) Significant Irreversible Environmental Changes Which Would be Involved in the Proposed Project Should it be Implemented	Sec. 5.7 Other CEQA Considerations, Unavoidable Significant Environmental Effects
(d) Growth-Inducing Impact of the Proposed Project	Sec. 5.7 Other CEQA Considerations, Growth-Inducing Impacts
(e) (and Section 15126.4) The Mitigation Measures Proposed to Minimize the Significant Effects	Ch. 4 The Park Plan, Goals and Guidelines (intended to minimize adverse environmental effects) Sec. 5.6 Environmental Impacts and Mitigation
(f) Alternatives to the Proposed Project	Sec. 5.10 Alternatives to the Proposed Project
Section 15127. Limitations on Discussion of Environmental Impact	Sec. 5.7 Other CEQA Considerations, Significant Irreversible Environmental Changes
Section 15128. Effects Not Found to be Significant	Sec. 5.5 Environmental Effects Eliminated from Further Analysis
Section 15129. Organizations and Persons Consulted	Ch. 7 References
Section 15130. Discussion of Cumulative Impacts	Sec. 5.7 Other CEQA Considerations, Cumulative Impacts
Section 15131. Economic and Social Effects (optional topic)	Ch. 4 Park Plan Throughout the document under discussions of recreation and visitor experience

**APPENDIX B****Publicly-Owned Recreational Facilities in the Vicinity of Año Nuevo State Park**

<b>NAME OF FACILITY</b>	<b>CAMPSITES</b>	<b>PICNIC SITES</b>	<b>TRAILS</b>	<b>OTHER(S)</b>	<b>COMMENTS</b>
<b>STATE PARKS</b>					
Butano SP	20 drive-in; 18 walk-in; also 8 backpacking sites at trail camp	12 picnic tables	~ 17 miles of designated hiking trail. Biking, horseback riding on unpaved roads only		Guided nature walks and weekend campfire programs offered during the summer.
Big Basin Redwoods SP – Inland	233 campsites parkwide, in campgrounds trail and horse camps	135 picnic sites	64.2 miles trails for hiking. Biking, horseback riding on fire roads only		Guided nature walks and campfire programs offered year-round
Big Basin Redwoods SP - Rancho del Oso	Horse camp with 6 units	4 picnic sites at the horse camp.	~.5 mi. west end of Skyline –to-the-Sea trail; ~.5 mile Marsh Trail; ~.5 mi. connection to other park trails	Nature Center	
Pigeon Point Light Station SHP			0.5 mile section of California Coastal Trail	Hostel Facility: up to 50 persons can be accommodated in dorm rooms or private rooms.	Consists of four three-bedroom houses adapted for hostel use. Groups between 10 to 30 can be accommodated.
Portola SP	53 tent spaces: 1 for disabled, 9 tent/RV; 4 walk-in grp camps: 3 hold 50, 1 holds 25;	Group day use for 75; also 2 parking for 30 cars; 3	18 miles of trails for hiking only		

NAME OF FACILITY	CAMPSITES	PICNIC SITES	TRAILS	OTHER(S)	COMMENTS
	also 6 sites for backpackers	picnic areas with 20 sites			
Castle Rock SP	Primitive for backpackers only: 26 units	None	"32+" miles: hiking, riding trails	Rock climbing	The 6.5 miles of the Skyline-to-the-Sea trail closest to Castle Rock is in that park. Only one fire road open to bikes to access the trail camp.
H. Cowell RSP	110 campsites	Group picnic for 50-60; 15 family sites	20 miles: hiking, riding; bikes on paved or fire roads	Nature Center; nature trail	The Roaring Camp and Big Trees Railroad is in the park
<b>COUNTY PARKS - San Mateo County</b>					
Pescadero Creek	Primitive walk-in camps (18 sites in two groups)	None	46.8 miles with loops; for hikers & equestrians	Biking on designated service roads only; Important plant and wildlife resources	Trail connections to Sam McDonald, Memorial and Portola parks; also Hikers' Hut, a hostel run by the Sierra Club, with a capacity of 14 people
Memorial Park	156 campsites; 6 youth grp areas; 2 group camps (75 people each)	4 reservable picnic areas (350 people max.)	12.5 miles of hiking and interpretive trails	Campfire center	Emphasis on interpretation: walks, programs
Sam McDonald	3 youth group camps (300 capacity); also horse camp for individuals or groups (8 sites, 80 people max.)	None	6.7 miles for hikers, joggers, and equestrians	Biking on designated service roads only	Trail connections to Memorial and Pescadero Creek parks; park has volunteer program
Heritage Grove	None	None	1.5 miles	Largest redwood trees in the Santa Cruz Mts.	Used for access to Pescadero Creek Park and the Hikers' Hut.
<b>COUNTY PARKS - Santa Cruz County</b>					
Ben Lomond Park	None	12 picnic sites	No trails; street parking only	1-acre neighborhood park	Basketball court, playground; historic dam

NAME OF FACILITY	CAMPSITES	PICNIC SITES	TRAILS	OTHER(S)	COMMENTS
Felton Covered Bridge	None	6 picnic sites	~1/4 mile trail around park	32 parking spaces	Covered bridge; recreational amenities include a volleyball court, playgrounds, lawn, fishing
Highlands Park	None	2 reservable group sites; ~12 family picnic sites	~1/2-mile trails	26 acres	Reservable house, sports field
Quail Hollow Ranch	None	10 picnic sites	3.5 - 4 miles of trails	Gravel lot accommodating 50 cars	Emphasis on interpretation of natural resources; docent-led walks, nature programs available (also has historic ranch house, pond - no fishing), weddings
<b>COUNTY PARKS - Santa Clara County</b>					
Sanborn County Park	13 RV sites plus 1 for disabled persons; 1 youth group camp for 35-40; 1 walk-in campground with 33 sites	3 reservable grp areas: 2 hold 100; 1 holds 200; 3 other areas first come first served for up to 420 (42 sites x 10 each)	15 miles of hiking & horse trails; 1-mile nature trail; 267 parking spaces plus 10 for disabled persons	Lake for fishing	Emphasis on nature study, interpretation, ranger-led walks. Is adjacent to Castle Rock State Park, and has connecting trails
Upper Stevens Creek	None	None	~8 miles of trails for hiking, mt. biking, and horse-back riding; only 5 parking spaces	"Wilderness" experience	



NAME OF FACILITY	CAMPSITES	PICNIC SITES	TRAILS	OTHER(S)	COMMENTS
Stevens Creek	None	3 group picnic areas, capacity: 100, 75, and 50 people; also family sites, first come first served, total capacity of 800; 363 parking spaces	~8 miles of trails for hiking, mt. biking, and horseback riding (on specific trails)	Small lake – boating, fishing – no motorized craft	Archery, birding. Adjacent to Midpeninsula Open Space preserve (Fremont-Older)
<b>MIDPENINSULA OPEN SPACE</b>					
Russian Ridge Open Space Preserve			8 mi. trails	Open grasslands, wildflowers, wildlife (raptors); views	Connections to: Bay Area Ridge Trail to Skyline Ridge OSP
Coal Creek Open Space Preserve			5 mi. trails; hiking, biking, equestrian	Forested areas, seasonal waterfalls	Connections to Skyline Blvd., Russian Ridge, and Portola Valley. Trail loops.
Los Trancos Open Space Preserve			5 mi. trails; no bicycles; 1.5-mi San Andreas Fault Trail	Grasslands, brushlands, forested areas; views	Self-guided geology interpretation along the Fault Trail
Skyline Ridge Open Space Preserve		Several tables at Horseshoe Lake overlook	10 mi. trails; ~2 mi. of accessible trails; 3 mi. of Bay Ridge Trail	Meadows; pond with pier for nature study; lakes; chaparral; ridgetop views	Nature center offers docent-led tours

NAME OF FACILITY	CAMPSITES	PICNIC SITES	TRAILS	OTHER(S)	COMMENTS
Monte Bello Ridge Open Space Preserve	Backpack walk-in camp; 4 single sites and 1 group site		~15 mi. trail system for hikers, bikers. Stevens Creek Nature Trail is a self-guided 3-mile loop	Grasslands, creekside forests; vistas; rich wildlife area	The 72-year-old Picchetti Ranch Area is in the southwestern corner of the preserve and features a working winery complex.
Long Ridge Open Space Preserve			10 mi. trails	Grasslands and oak, madrone and Douglas fir forests; great views.	Many connections, possibilities for trail loops. Connects to Skyline Ridge and Saratoga Gap preserves and Upper Stevens Creek County Park; also access from Highway 35 and 3-mile segment of Bay Area Ridge Trail; hiking trail to Portola SP
Saratoga Gap Open Space Preserve			Less than 2 miles of trail; ~1 mile paralleling Skyline Blvd.	Largely Douglas fir forest	Many trail connections: Sanborn-Skyline Park, Castle Rock SP, Big Basin Redwoods SP, Upper Stevens Cr. Park, Monte Bello Open Space Preserve, Saratoga Gap-Page Mill Rd. trail, Bay Area Ridge Trail; 9-mi. loop through Long Ridge
Fremont Older Open Space Preserve			~9 mi. hiking, biking, and equestrian trails	Open grasslands, brushy hillsides; historic house; vistas	
El Sereno Open Space Preserve			5.6 mi. hiking, biking & equestrian trails	Chaparral	

**APPENDIX C**  
**Privately-Owned Recreational Facilities in the Vicinity of**  
**Año Nuevo State Park**

<b>GROUP/ ORGANIZATION</b>	<b>ADDRESS</b>	<b>TYPE OF FACILITY</b>
<b>Environmental education</b>		
Sempervirens Outdoor School	20161 Big Basin Hwy. Boulder Creek, CA 95066	Environmental education for Bay Area Sixth Graders
<b>Campgrounds available to the general public</b>		
Costanoa	2001 Rossi Rd. Pescadero, CA 94060	Resort & Campground
Cotillion Gardens RV Park	300 Old Big Trees Rd. Felton CA 95018	Campground
Redwood Resort	150 East Grove, Boulder Creek, CA 95006	Campground
River Grove Park	4980 Highway 9 Felton, CA 95018	Campground
Smithwoods RV Park	4770 Highway 9 Felton, CA 95018 Or: PO Box 27 Felton, CA 95018	Campground
<b>Private campgrounds</b>		
Boulder Creek Scout Reservation	250 Scout Ranch Road (formerly 14586 Bear Creek Rd.) Boulder Creek, CA 95006	Boy Scout Camp
Camp Butano Creek	1400 Canyon Rd. Pescadero, CA 94060	Girl Scout Camp
Camp Chesebrou	25005 Highway 9 Boulder Creek, CA 95006-9078	Boy Scout Camp
Camp Krem	Boulder Creek, CA	Camp for developmentally disabled
Cutter Scout Reservation	2500 China Grade Boulder Creek, CA 95006	Boy Scout Camp
Little Basin (Hewlett-Packard facility)	21700 Little Basin Rd. Boulder Creek, CA 95006	Former campground and recreation facilities for Hewlett-Packard employees, currently not in use
Red White and Blue Beach	5021 Coast Road Santa Cruz, CA 95060	Campground, day use, beach access (currently closed)
YMCA Camp Jones Gulch	11000 Pescadero Rd. La Honda, CA 94020	YMCA Camp/Lodging
YMCA of the East Bay Camping	990 Pescadero Creek Rd. Loma Mar, CA	YMCA Camp/Lodging

GROUP/ ORGANIZATION	ADDRESS	TYPE OF FACILITY
YMCA of the Redwoods, Camp Campbell	16275 Hwy. 9 Boulder Creek, CA 95006-9652	YMCA Camp/Lodging
<b>Retreats/lodging</b>		
Camp Hammer	21401 Big Basin Hwy. Boulder Creek, CA 95066-9097	Group Retreats/lodging (Twin Lakes Church owns; open for Christian groups)
Camp Harmond	16403 Hwy. 9 Boulder Creek, CA 95006	Retreats/Lodging
Mission Springs Conference Center	1050 Lockhart Gulch Rd. Scotts Valley CA 95066	Retreats/Lodging
Mount Hermon Christian Conference Center	PO Box 413 Mount Hermon CA 95041	Retreats/Lodging
Mount Cross Lutheran Camp	PO Box 387 Felton, CA 95018	Retreats/Lodging
Quaker Center	PO Box 686, Ben Lomond CA 95005	Retreats/Lodging
Redwood Christian Park	15000 Two Bar Rd. Boulder Creek, CA 95006	Retreats/Lodging
Redwood Glen Camp and Conference Center	3100 Bean Creek Rd. Scotts Valley, CA 95066	Retreats/Lodging (Salvation Army; open to public; no alcohol) 205 acres; 300 people sleeping
Taungpulu Monastery	18335 Big Basin Hwy. Boulder Creek, CA 95006	Retreat/Lodging
Vajrapani Institute	19950 Kings Creek Rd. Boulder Creek, CA 95006 or PO Box 213 Boulder Creek, CA 95006	Retreats/Lodging
<b>Overnight accommodations</b>		
Boulder Creek Lodge and Conference Center	16901 Big Basin Hwy. Boulder Creek, CA 95006	Lodge and Conference Center
Pigeon Point Lighthouse Hostel	210 Pigeon Point Rd. (@ Hwy 1) Pescadero, CA 94060-9713	Hostel operated by Hosteling-International
Costanoa	2001 Rossi Rd. Pescadero, CA 94060	Lodge, cabins
Best Western Inn	6020 Scotts Valley Drive Scotts Valley, CA 95066	Motel
Davenport Bed and Breakfast Inn	31 Davenport Avenue Davenport, CA 95017	Bed and Breakfast
Econo Lodge	9733 Highway 9 Ben Lomond, CA 95005-9204	Motel
Fairview Manor Bed and Breakfast Inn	245 Fairview Avenue Ben Lomond, CA 95005	Bed and Breakfast
Felton Crest Inn	780 El Solyo Heights Drive Felton, CA 95018	Bed and Breakfast

<b>GROUP/ ORGANIZATION</b>	<b>ADDRESS</b>	<b>TYPE OF FACILITY</b>
Fern River Resort Motel	5250 Highway 9 Felton, CA 95018	Motel
The Hilton Santa Cruz/Scotts Valley	6001 La Madrona Drive Scotts Valley, CA 95060	Hotel
Jaye's Timberlane Resort	8705 Highway 9 Ben Lomond, CA 95005	Motel
Merrybrook Lodge	13420 Big Basin Way Boulder Creek, CA 95006	Motel
Pescadero Creek Inn Bed and Breakfast	393 Stage Road Pescadero, CA 94060	Bed and Breakfast
Valley View Inn	600 Hacienda Scotts Valley, CA 95066	Bed and Breakfast

\*Additional privately-owned overnight accommodations, recreation facilities, and conference facilities are located in Santa Cruz

## APPENDIX D Existing Trails

### Año Nuevo State Park, Butano State Park, and Big Basin Redwoods State Park

TRAIL # (as noted on Fig. 4)	NAME	TYPE OF USE	LENGTH IN PARK (MILES)	# BRIDGES	YEAR CONSTRUCTED
1	Skyline to the Sea	Hiking	14.4	24	1914
		Equestrian	7.2		
2	East Ridge Trail	Equestrian, Hiking	4.6	2	Unknown
3	Eagle Rock Trail	Hiking	1.0	0	1985
4	Shadowbrook Trail	Hiking	2.8	5	Unknown
5	Sequoia Trail	Hiking	2.9	2	1875
6	Pine Mountain Trail	Hiking	1.8	0	1932
7	Basin Trail	Hiking	3.2	0	Unknown
8	Hollow Tree Trail	Hiking	3.2	3	1977
9	Meteor Trail	Hiking	1.0	0	Unknown
10	Creeping Forest Trail	Hiking	1.3	0	Unknown
11	Dool Trail	Hiking	0.8	1	Unknown
12*	Redwood Trail	Hiking, Interpretive	0.6	0	1938
13	Blooms Creek Trail	Hiking	0.6	1	Unknown
14	Sunset Trail	Hiking	4.9	6	1914
15	Howard King Trail	Hiking	4.7	0	1972
16	Timms Creek Trail	Hiking	0.9	0	1914
17	McCrary Ridge Trail	Equestrian, Hiking	2.6	0	Unknown
18	Berry Creek Falls Trail	Hiking	1.1	1	1914

TRAIL # (as noted on Fig. 4)	NAME	TYPE OF USE	LENGTH IN PARK (MILES)	# BRIDGES	YEAR CONSTRUCTED
19	Henry Creek Trail	Equestrian, Hiking	2.0	0	1964
20	Westridge Trail	Equestrian, Hiking	4.1	0	Unknown
21	Clark Connection	Equestrian, Hiking	1.1	0	Unknown
22	Marsh Trail	Equestrian, Hiking	0.4	0	Unknown
23	Nature Trail	Equestrian, Hiking	0.8	0	Unknown
24	Whitehouse Ridge Trail	Equestrian, Hiking	0.6	0	Unknown
25**	Conn. Sempervirens Campground- Blooms Ck. Campground	Hiking	0.2	0	Unknown
26**	Conn. Blooms Ck. Campground-Park HQ	Hiking	0.4	0	Unknown
27**	Conn. Hihn Hammond-Skyline to the Sea	Hiking	0.4	0	Unknown
28**	Conn. Sunset- Skyline to the Sea	Hiking	0.2	0	Unknown
29**	Conn. Eastridge- Shadowbrook (Hwy. 236)	Hiking	0.2	0	Unknown
30**	Conn. Eastridge- Shadowbrook (Huckleberry)	Hiking	0.4	0	Unknown

TRAIL # (as noted on Fig. 4)	NAME	TYPE OF USE	LENGTH IN PARK (MILES)	# BRIDGES	YEAR CONSTRUCTED
31**	Conn. Sequoia-Shadowbrook	Hiking	0.1	0	Unknown
32**	Conn. Shadowbrook-Wastahi Campground	Hiking	0.3	0	Unknown
33**	Conn. Shadowbrook-Huckleberry Campground	Hiking	0.1	0	Unknown
34**	Conn. Sequoia Campground-Park HQ	Hiking	0.4	0	Unknown
35**	Sempervirens Falls Trail	Hiking	0.1	0	Unknown
36	Ray Linder Trail	Hiking	1.0	0	Unknown
37	Indian Trail	Hiking	0.9	0	Unknown
38	Canyon Trail	Hiking	2.8	0	Unknown
39	Doe Ridge Trail	Hiking	1.6	0	Unknown
40	Jackson Flats Trail	Hiking	2.8	0	Unknown
41	Butano Creek Trail	Hiking	1.5	0	Unknown
42	Goat Hill Trail	Hiking	1.8	0	Unknown
43	Gazos Trail	Hiking	0.8	0	Unknown
44	Mill Ox Trail	Hiking	0.5	0	Unknown
45	Six Bridges Trail	Hiking	1.0	0	Unknown
46	Año Nuevo Trail	Hiking	1.3	0	Unknown
47	Whitehouse Ridge Trail	Hiking	1.5	0	Unknown
48	New Years Creek Trail	Hiking	0.25	0	Unknown
49	Cove Beach Trail	Hiking	0.04	0	Unknown
50	Pond Loop Trail	Hiking	0.4	0	Unknown



TRAIL # (as noted on Fig. 4)	NAME	TYPE OF USE	LENGTH IN PARK (MILES)	# BRIDGES	YEAR CONSTRUCTED
51	Año Nuevo Point Trail	Hiking	1.3	0	Unknown
52	Cascade Creek Trail	Hiking	0.5	0	Unknown
53	Whitehouse Creek Trail	Hiking	0.19	0	Unknown
54	Atkinson Bluff Trail	Hiking	1.8	0	Unknown
55	Franklin Point Trail	Hiking	0.6	0	Unknown
56	Unmaintained Trails	Hiking	1.8	0	Unknown
57	Candelabra Trail	Hiking	1.5	0	Unknown

\* ADA accessible trail

\*\* Trail/Connector not located/numbered on Existing Roads and Trails Map

Total Single-track Hiking Only	72.38
Total Single-track Equestrian and Hiking	23.4
<b>TOTAL SINGLE-TRACK TRAIL</b>	<b>95.78 miles</b>

## APPENDIX E Existing Roads

### Año Nuevo State Park, Butano State Park, and Big Basin Redwoods State Park

ROAD # (as noted on Fig. 4)	NAME	DESCRIPTION	TYPE OF USE	LENGTH IN PARK (MILES)	# BRIDGES	YEAR CONSTRUCTED
1	China Grade Road	Road-Paved	Public Road	3.7	0	1880
2	Rogers Road	Road- Paved/Unpaved	Public Road	0.6	0	1880
3	Lodge Road	Road-Paved	Public Road	1.8	0	1903
4	East Ridge Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	1.4	0	Unknown
5	Sky Meadow Road	Road-Paved	Public Road	3.8	0	
6	Little Basin Road	Road-Paved	Public Road, Authorized Vehicles	0.6	0	Unknown
7	Pine Mountain Road		Authorized Vehicles, Hiking, Mt. Biking, Equestrian	1.1	1	1960
8	North Escape Road	Road-Paved	Public Road	3.1	1	1895
9	Gazos Creek Road	Road- Paved/Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	5.3	0	1934

ROAD # (as noted on Fig. 4)	NAME	DESCRIPTION	TYPE OF USE	LENGTH IN PARK (MILES)	# BRIDGES	YEAR CONSTRUCTED
10	Middle Ridge Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	3.8	0	1905
11	Johansen Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	1.8	0	Unknown
12	Hihn Hammond Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	2.5	1	1940
13	Last Chance Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	2.2	0	1970
14	Anderson Landing Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	0.9	0	Unknown
15	Whitehouse Canyon Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	2.4	0	Unknown

ROAD # (as noted on Fig. 4)	NAME	DESCRIPTION	TYPE OF USE	LENGTH IN PARK (MILES)	# BRIDGES	YEAR CONSTRUCTED
16	Chalks Mountain Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	3.1	0	Unknown
17	East Waddell Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	5.1	0	1945
18	Upper Canyon Road	Road-Paved	Public Road	0.5	0	1940
19	Lower Canyon Road	Road-Paved	Public Road	0.3	0	1947
20*	Sky Meadow Campground Road	Road-Paved	Public Road	0.2	0	Unknown
21*	Huckleberry Campground Road	Road-Paved	Public Road	1.0	0	1968
22*	Sempervirens Campground Road	Road-Paved	Public Road	0.3	0	1949
23*	Blooms Creek Campground Road	Road-Paved	Public Road	0.4	1	1930
24*	Alder Campground Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	0.1	0	1945
25	Highway 236	Road-Paved	Public Road	6.5	0	1929-1938
26	Highway 1	Road-Paved	Public Road	1.2	1	Unknown
27*	Union Creek Road	Road-Unpaved	Public Road	0.2	0	1974

ROAD # (as noted on Fig. 4)	NAME	DESCRIPTION	TYPE OF USE	LENGTH IN PARK (MILES)	# BRIDGES	YEAR CONSTRUCTED
28	Butano Fire Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	5.2	6	Unknown
29	Olmo Fire Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	3.2	7	Unknown
30	Butano SP Entrance Road	Road-Paved	Public Road	1.0	1	Unknown
31	Gazos Creek Road	Road-Paved	Public Road	3.6	8	Unknown
32	Old Womans Creek Road	Road-Unpaved	Public Road	1.6	5	Unknown
33	Whitehouse Canyon Road	Road-Unpaved	Public Road	1.4	4	Unknown
34	Chalk Mountain Fire Road	Road-Unpaved	Authorized Vehicles, Hiking, Mt. Biking, Equestrian	0.78	3	Unknown
35	Año Nuevo SNR Entrance Road	Road-Paved	Public Road	0.4	1	Unknown
36	Año Nuevo SNR Service Road	Road-Paved	Authorized vehicles	0.5	2	Unknown

\* Road not located/numbered on Existing Roads and Trails Map

**APPENDIX F****Soil Types  
Coastal Area of the Park**

<b>Soil Series</b>	<b>Soil type/ Parent Material</b>	<b>Depth and Drainage</b>	<b>Runoff</b>	<b>Permeability</b>	<b>Erosion Hazard</b>	<b>Shrink Swell</b>
Dublin Clay	Clay to clay loam Alluvium from sedimentary rocks	Moderately deep Well to poorly drained	Slow	Slow	None to slight	High
Lockwood (Brown subsoil variant)	Shaly loam to clay loam Siliceous shale parent	Very deep, well drained	Low to high	Moderately slow	slight to moderate	Moderate
Lobitos	Fine sandy loam – clay loam Sandstone and Shale parent	Moderately deep, well drained	Slow to medium	Moderately rapid to rapid	Slight to moderate	Moderate
Watsonville	Loam to sandy loam Alluvium from sedimentary rocks	Deep, Poorly drained (perched water table)	Slow to rapid	Very slow	None to slight	High

Source: USDA 1961, 1973, and 2002

### Soil Types Inland Area of the Park

Soil Series	Soil type/ Parent Material	Depth and Drainage	Runoff	Permeability	Erosion Hazard	Shrink Swell
Botella	Silty clay loam Alluvium from sedimentary parent	Very deep, well drained	Low to high	Moderately slow	Slight to moderate	Moderate
Butano	Silt loam Siliceous shales	Moderately deep Well drained	Rapid to moderate	Moderate	Moderate to high	Moderate
Colma	Loam to sandy loam Unconsolidated marine sediments	Deep, well drained	Medium to very rapid	Moderately slow to slow	Slight to high	Low
Corralitos	Sandy loam Sandy alluvium from sedimentary rocks	Deep, excessively drained	Slow	Rapid	Slight	Low
Dublin Clay	Clay to clay loam Alluvium from sedimentary rocks	Moderately deep Well to poorly drained	Slow	Slow	None to slight	High
Gazos	sandy loam to loam Sandstone & Shale	Moderately deep, well drained	High to very high	Moderately slow	Slight to high	Moderate
Lobitos	Fine sandy loam – clay loam Sandstone and Shale parent	Moderately deep, well drained	Slow to medium	Moderately rapid to rapid	Slight to moderate	Moderate
Lockwood (Brown subsoil variant)	Shaly loam to clay loam Siliceous shale parent	Very deep, well drained	Low to high	Moderately slow	slight to moderate	Moderate

Pomponio	Loam to clay loam Shale	Shallow to moderately deep, moderately well drained	Medium	Moderate to slow	High	High
Santa Lucia	Shaley clay loam Shale	Moderately deep, well drained	Very low to high	Moderate	Slight to high	Low
Tierra	Loam Alluvium from sedimentary rocks	Deep, moderately well drained	Slow to rapid	Very slow	Moderate to very high	High
Tunitas	Loam Fine grained alluvium	Very deep, moderately well drained	Slow to medium	Slow	Slight to moderate	High
Watsonville	Loam to sandy loam Alluvium from sedimentary rocks	Deep, Poorly drained (perched water table)	Slow to rapid	Very slow	None to slight	High

Source: USDA 1961, 1973, and 2002



**APPENDIX G**  
**Sensitive Plant Species for Which Suitable Habitat Exists**  
**Within the Coastal Area of the Park**

<b>SPECIES</b>	<b>COMMON NAME</b>	<b>STATUS*</b>	<b>PROBABILITY IN AÑO NUEVO SNR</b>
<i>Abronia umbellata</i> ssp. <i>umbellata</i>	Pink sand-verbena	SLC	Possible
<i>Agrostis blasdalei</i>	Blasdale's bent grass	CNPS List 1B	Possible
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	CNPS List 1B	Possible
<i>Arabis blepharophylla</i>	coast rock cress	CNPS List 4, SLC	Possible
<i>Astragalus nuttallii</i> var. <i>nuttallii</i>	Nuttall's milk-vetch	CNPS List 4	Possible
<i>Astragalus pycnostachyus</i> var. <i>pycnostachyus</i>	coastal marsh milk-vetch	CNPS List 1B, SLC	Possible
<i>Atriplex californica</i>	California saltbush	SLC	Possible
<i>Castilleja exserta</i> ssp. <i>latifolia</i>	purple owl's-clover	SLC	Possible
<i>Chorizanthe cuspidata</i> var. <i>cuspidata</i>	San Francisco Bay spineflower	CNPS List 1B	Possible
<i>Cirsium andrewsii</i>	Franciscan thistle	CNPS List 1B	Possible
<i>Corethrogyne leucophylla</i>	branching beach aster	CNPS List 3	Possible
<i>Erodium macrophyllum</i>	round-leaved filaree	CNPS List 2	Possible
<i>Erysimum ammophilum</i>	coast wallflower	CNPS List 1B	Present
<i>Erysimum franciscanum</i>	San Francisco wallflower	CNPS List 4	Possible
<i>Fritillaria agrestis</i>	stinkbells	CNPS List 4	Possible
<i>Grindelia hirsutula</i> var. <i>maritima</i>	San Francisco gumplant	CNPS List 1B	Possible
<i>Horkelia cuneata</i> ssp. <i>sericea</i>	Kellogg's horkelia	CNPS List 1B	Possible

<i>Horkelia marinensis</i>	Point Reyes horkelia	CNPS List 1B	Possible
<i>Lasthenia macrantha</i> ssp. <i>macrantha</i>	perennial goldfields	CNPS List 1B	Possible
<i>Leptosiphon grandiflorus</i>	large-flowered linanthus	CNPS List 4	Not Likely
<i>Lotus formosissimus</i>	harlequin lotus	CNPS List 4	Possible
<i>Microseris paludosa</i>	marsh microseris	CNPS List 1B	Not Likely
<i>Monardella undulata</i>	curly-leaved monardella	CNPS List 4	Possible
<i>Perideridia gairdneri</i> ssp. <i>gairdneri</i>	Gairdner's yampah	CNPS List 4	Possible
<i>Piperia michaelii</i>	Michael's rein orchid	CNPS List 4	Possible
<i>Plagiobothrys chorisianus</i> var. <i>chorisianus</i>	Choris's popcorn-flower	CNPS List 1B, SLC	Possible
<i>Potentilla hickmanii</i>	Hickman's cinquefoil	CNPS List 1B, SE, FE	Not Likely
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	CNPS List 4	Possible
<i>Stebbinoseris decipiens</i>	Santa Cruz microseris	CNPS List 1B	Possible
<i>Trifolium buckwestiorum</i>	Santa Cruz clover	CNPS List 1B	Possible

\*Status Codes: SE = State Endangered; FE = Federal Endangered; CNPS List 1B = Plants rare, threatened, or endangered in California and elsewhere; CNPS List 2 = Plants rare, threatened, or endangered in California, but more common elsewhere; CNPS List 3: = Plants about which we need more information; CNPS List 4 = Plants of limited distribution, a watch list; SLC= USFWS Species of Local Concern.

**APPENDIX H**  
**Sensitive Wildlife Species That Occur, or For Which Potential Habitat Exists**  
**Within the Coastal Area of the Park**

<b>TYPE</b>	<b>SPECIES</b>	<b>COMMON NAME</b>	<b>STATUS</b>	<b>PROBABILITY IN ANSNR</b>
<b>AMPHIBIANS</b>	<i>Rana aurora draytonii</i>	California red-legged frog	FT, CSC, CP	<b>Present</b>
	<i>Ambystoma tigrinum</i>	Tiger Salamander	FT, CSC, CP	<b>Unlikely</b>
<b>BIRDS</b>	<i>Gavia immer</i>	Common loon	CSC	<b>Present</b>
	<i>Pelecanus occidentalis californicus</i>	California Brown pelican	FE, SE, CFP	<b>Present</b>
	<i>Phalacrocorax auritus</i>	*Double-crested cormorant	CSC	<b>Present</b>
	<i>Ardea herodias</i>	*Great blue heron	Local concern	<b>Present</b>
	<i>Nycticorax nycticorax</i>	*Black-crowned night heron	Local concern	<b>Present-r</b>
	<i>Histrionicus histrionicus</i>	Harlequin duck	FSC, CSC	<b>Present-r</b>
	<i>Accipiter cooperi</i>	Cooper's hawk	CSC	<b>Present-r</b>
	<i>Accipiter striatus</i>	Sharp-shinned hawk	CSC	<b>Present</b>
	<i>Aquila chrysaetos</i>	Golden eagle	CSC, CFP	<b>Present</b>
	<i>Circus cyaneus</i>	Northern harrier	CSC	<b>Present</b>
	<i>Elanus caeruleus</i>	White-tailed kite	CFP	<b>Present</b>
	<i>Falco columbarius</i>	Merlin	CSC	<b>Present-r</b>
	<i>Falco peregrinus anatum</i>	American peregrine falcon	SE, CFP	<b>Present</b>
	<i>Haliaeetus leucocephalus</i>	Bald eagle	CE, FT (FPD), CFP	<b>Unlikely</b>
			CSC	
	<i>Pandion haliaetus</i>	Osprey	FSC, ST, CFP	<b>Present-r</b>
	<i>Laterallus jamaicensis coturniculus</i>	California black rail	FT, CSC	<b>Unlikely</b>
	<i>Charadrius alexandrinus nivosus</i>	Western snowy plover	CSC	<b>Present</b>
	<i>Numenius americanus</i>	Long-billed curlew	CSC	<b>Present</b>
	<i>Larus californicus</i>	California gull	FE, SE, CFP	<b>Present</b>
	<i>Sterna antillarum browni</i>	California least tern	CSC	<b>Unlikely</b>
	<i>Sterna elegans</i>	Elegant tern	FT, SE, CFP	<b>Present</b>
	<i>Brachyramphus marmoratus</i>	Marbled murrelet	CSC	<b>Present</b>
	<i>Cerorhinca monocerata</i>	Rhinoceros auklet	CSC	<b>Present</b>
	<i>Asio flammeus</i>	Short-eared owl	CSC	<b>Present-r</b>

	<i>Asio otus</i> <i>Cypseloides niger</i> <i>Chaetura vauxi</i> <i>Empidonax trailii</i> <i>Lanius ludovicianus</i> <i>Progne subis</i> <i>Riparia riparia</i> <i>Dendroica petechia brewsteri</i> <i>Geothlypis trichas sinuosa</i>  <i>Agelaius tricolor</i>	Long-eared owl Black swift Vaux's swift Willow flycatcher Loggerhead shrike Purple martin Bank swallow Yellow warbler Saltmarsh Common Yellowthroat Tricolored blackbird	CSC CSC SE FSC, CSC CSC ST CSC FSC, CSC  FSC, CSC	Unlikely <b>Present</b> <b>Present</b> Unlikely <b>Present</b> <b>Present-r</b> <b>Present</b> <b>Present</b> Present?  <b>Present</b>
<b>MAMMALS</b>	<i>Corynorhinus townsendii townsendii</i>  <i>Antrozous pallidus</i> <i>Myotis evotis</i> <i>Myotis thysanodes</i> <i>Myotis volans</i> <i>Eumops perotis</i> <i>Bassiriscus astutus</i> <i>Eumetopias jubatus</i>	Townsend's western big-eared bat Pallid bat Long-eared myotis Fringed myotis Long-legged myotis Western mastiff bat Ringtail Stellar's (Northern) sea lion	WBWG, CSC  WBWG, CSC FSC? WBWG WBWG WBWG, CSC CFP? FT	Potential  Potential ? Potential Potential Potential Potential <b>Present</b>
<b>REPTILES</b>	<i>Clemmys marmorata</i> <i>Phrynosoma coronatum frontale</i> <i>Thamnopsis sirtalis tetrataenia</i>	Western pond turtle California horned lizard San Francisco garter snake	FSC, CSC FSC, CSC, CP FE, CE, CFP	Potential?  <b>Present</b>
<b>FISHES</b>	<i>Onchorynchus kisutch</i>  <i>Onchorynchus mykiss</i>  <i>Eucyclogobius newberryi</i>	Coho salmon – Central California coast ESU Steelhead – Central California coast ESU Tidewater goby	FT, SE  FT  FE (FPD), CSC	Potential  <b>Present</b>

<b>INVERTEBRATES</b>	<i>Danaus plexippus</i> <i>Speyeria adiastra adiastra</i> <i>Cicindela hirticollis gravida</i> <i>Tryonia imitator</i>	Monarch butterfly Unsilvered fritillary butterfly Sandy beach tiger beetle California brackishwater snail	Local concern FSC FSC FSC	<b>Present</b>
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\*Status Codes: FE = Federal Endangered; FT = Federal Threatened; FC = Federal Candidate for listing; FPD = Federal Proposed for Delisting; FSC = Federal Species of Concern; SE = State Endangered; ST = State Threatened; CFP = California Fully Protected; CP = California Protected; CSC = California Species of Special Concern; MNBMC = Fish and Wildlife Service's Migratory Nongame Birds of Management Concern.

Information Sources: CNDDDB, 2005; California State Parks Natural Resources Baseline Condition Assessment, FY 2001/02; Año Nuevo State Natural Reserve Website

**APPENDIX I**  
**Sensitive Plant Species for Which Suitable Habitat Exists**  
**Within the Inland Area of the Park**

<b>SPECIES</b>	<b>COMMON NAME</b>	<b>STATUS*</b>	<b>PROBABILITY IN AÑO NUEVO STATE PARK</b>
<i>Amsinkia lunaris</i>	bent-flowered fiddleneck	CNPS List 1B, SLC	Possible
<i>Arabis blepharophylla</i>	coast rock cress	CNPS List 4, SLC	Possible
<i>Arctostaphylos andersonii</i>	Santa Cruz manzanita	CNPS List 1B	Possible
<i>Arctostaphylos glutinosa</i>	Schreiber's manzanita	CNPS List 1B	Not Likely
<i>Calandrinia breweri</i>	Brewer's calandrinia	CNPS List 4	Possible
<i>Calochortus umbellatus</i>	Oakland star-tulip	CNPS List 4	Not Likely
<i>Cirsium andrewsii</i>	Franciscan thistle	CNPS List 1B	Not Likely
<i>Collinsia multicolor</i>	San Francisco collinsia	CNPS List 1B	Possible
<i>Corethrogyne filagnifolia</i> (= <i>C. leucophylla</i> )	branching beach aster	CNPS List 3	Possible
<i>Cypripedium fasciculatum</i>	clustered lady's-slipper	CNPS List 4	Not Likely
<i>Cypripedium montanum</i>	mountain lady's-slipper	CNPS List 4	Not Likely
<i>Elymus californicus</i>	California bottle-brush grass	CNPS List 4	Possible
<i>Erodium macrophyllum</i>	round-leaved filaree	CNPS List 2	Possible
<i>Erysimum franciscanum</i>	San Francisco wallflower	CNPS List 4	Not Likely
<i>Fritillaria agrestis</i>	stinkbells	CNPS List 4, SLC	Not Likely
<i>Leptosiphon grandiflorus</i>	large-flowered linanthus	CNPS List 4	Not Likely
<i>Lotus formosissimus</i>	harlequin lotus	CNPS List 4	Possible
<i>Microseris paludosa</i>	marsh microseris	CNPS List 1B	Not Likely

<i>Pedicularis dudleyi</i>	Dudley's lousewort	CNPS List 1B, SR	Not Likely
<i>Perideridia gairdneri</i> ssp. <i>gairdneri</i>	Gairdner's yampah	CNPS List 4	Possible
<i>Piperia michaelii</i>	Michael's rein orchid	CNPS List 4	Possible
<i>Plagiobothrys chorisianus</i> var. <i>chorisianus</i>	Choris's popcorn-flower	CNPS List 1B, SLC	Likely
<i>Plagiobothrys chorisianus</i> var. <i>hickmanii</i>	Hickman's popcorn-flower	CNPS List 4	Possible
<i>Plagiobothrys diffusus</i>	San Francisco popcorn-flower	CNPS List 1B, SE	Present
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	CNPS List 4	Possible
<i>Sanicula hoffmannii</i>	Hoffmann's sanicle	CNPS List 4	Not Likely
<i>Silene verecunda</i> ssp. <i>verecunda</i>	San Francisco campion	CNPS List 1B	Possible
<i>Stebbinoseris decipiens</i>	Santa Cruz microseris	CNPS List 1B	Possible
<i>Trifolium buckwestiorum</i>	Santa Cruz clover	CNPS List 1B	Possible
<i>Zigadenus micranthus</i> var. <i>fontanus</i>	marsh zigadenus	CNPS List 4	Possible

\*Status Codes: SE = State Endangered; FE = Federal Endangered; CNPS List 1B = Plants rare, threatened, or endangered in California and elsewhere; CNPS List 2 = Plants rare, threatened, or endangered in California, but more common elsewhere; CNPS List 3: = Plants about which we need more information; CNPS List 4 = Plants of limited distribution, a watch list; SLC= USFWS Species of Local Concern.

## APPENDIX J

Sensitive Wildlife Species That Occur, or For Which Potential Habitat Exists  
Within the Inland Area of the Park

TYPE	SPECIES	COMMON NAME	STATUS	PROBABILITY IN ANSP
AMPHIBIANS	<i>Rana aurora draytonii</i>	California red-legged frog	FT, CSC, CP	Present
	<i>Ambystoma tigrinum</i>	Tiger Salamander	FT, CSC, CP	Unlikely
BIRDS	<i>Phalacrocorax auritus</i>	*Double-crested cormorant	CSC	Present
	<i>Ardea herodias</i>	*Great blue heron	Local concern	Present
	<i>Nycticorax nycticorax</i>	*Black-crowned night heron	Local concern	Present-r
	<i>Accipiter cooperi</i>	Cooper's hawk	CSC	Present-r
	<i>Accipiter striatus</i>	Sharp-shinned hawk	CSC	Present
	<i>Aquila chrysaetos</i>	Golden eagle	CSC, CFP	Present
	<i>Circus cyaneus</i>	Northern harrier	CSC	Present
	<i>Elanus caeruleus</i>	White-tailed kite	CFP	Present
	<i>Falco columbarius</i>	Merlin	CSC	Present-r
	<i>Falco peregrinus anatum</i>	American peregrine falcon	SE, CFP	Present
	<i>Haliaeetus leucocephalus</i>	Bald eagle	CE, FT (FPD), CFP	Unlikely
	<i>Pandion haliaetus</i>	Osprey	CSC	
	<i>Laterallus jamaicensis coturniculus</i>	California black rail	FSC, ST, CFP	Present-r
	<i>Larus californicus</i>	California gull	CSC	Unlikely
	<i>Brachyramphus marmoratus</i>	Marbled murrelet	FT, SE, CFP	
	<i>Asio flammeus</i>	Short-eared owl	CSC	Potential
	<i>Asio otus</i>	Long-eared owl	CSC	Present
	<i>Cypseloides niger</i>	Black swift	CSC	Present-r
	<i>Chaetura vauxi</i>	Vaux's swift	CSC	Unlikely
	<i>Empidonax trailii</i>	Willow flycatcher	SE	Present
	<i>Lanius ludovicianus</i>	Loggerhead shrike	FSC, CSC	Present
	<i>Progne subis</i>	Purple martin	CSC	Unlikely
	<i>Riparia riparia</i>	Bank swallow	ST	Present
	<i>Dendroica petechia brewsteri</i>	Yellow warbler	CSC	Present-r
	<i>Geothlypis trichas sinuosa</i>	Saltmarsh Common	FSC, CSC	Present



	<i>Agelaius tricolor</i>	Yellowthroat Tricolored blackbird	FSC, CSC	Present?  <b>Present</b>
<b>MAMMALS</b>	<i>Corynorhinus townsendii townsendii</i>  <i>Antrozous pallidus</i> <i>Myotis evotis</i> <i>Myotis thysanodes</i> <i>Myotis volans</i> <i>Eumops perotis</i> <i>Bassiriscus astutus</i> <i>Eumetopias jubatus</i>	Townsend's western big-eared bat Pallid bat Long-eared myotis Fringed myotis Long-legged myotis Western mastiff bat Ringtail Stellar's (Northern) sea lion	WBWG, CSC  WBWG, CSC FSC? WBWG WBWG WBWG, CSC CFP? FT	Potential  Potential ? Potential Potential Potential Potential <b>Present</b>
<b>REPTILES</b>	<i>Clemmys marmorata</i> <i>Phrynosoma coronatum frontale</i> <i>Thamnopsis sirtalis tetrataenia</i>	Western pond turtle California horned lizard San Francisco garter snake	FSC, CSC FSC, CSC, CP FE, CE, CFP	Present Potential? <b>Present</b>
<b>FISHES</b>	<i>Onchorynchus kisutch</i>  <i>Onchorynchus mykiss</i>  <i>Eucyclogobius newberryi</i>	Coho salmon – Central California coast ESU Steelhead – Central California coast ESU Tidewater goby	FT, SE  FT  FE (FPD), CSC	<b>Present</b>  <b>Present</b>  ?
<b>INVERTEBRATES</b>	<i>Danaus plexippus</i> <i>Speyeria adiastrae adiastrae</i> <i>Tryonia imitator</i>	Monarch butterfly Unsilvered fritillary butterfly California brackishwater snail	Local concern FSC FSC	<b>Present</b>

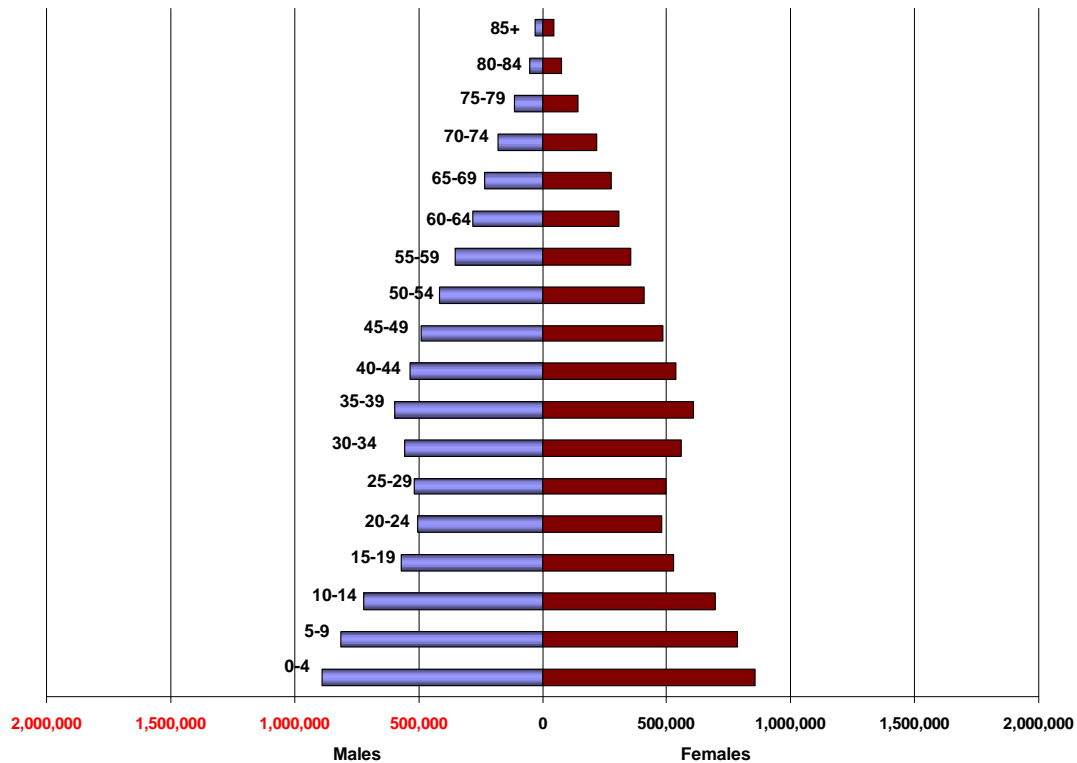
\*Status Codes: FE = Federal Endangered; FT = Federal Threatened; FC = Federal Candidate for listing; FPD = Federal Proposed for Delisting; FSC = Federal Species of Concern; SE = State Endangered; ST = State Threatened; CFP = California Fully Protected; CP = California Protected; CSC = California Species of Special Concern; MNBMC = Fish and Wildlife Service's Migratory Nongame Birds of Management Concern; WBWG = Western Bat Working Group High Priority Species.  
(r = very rare)

Information Sources:

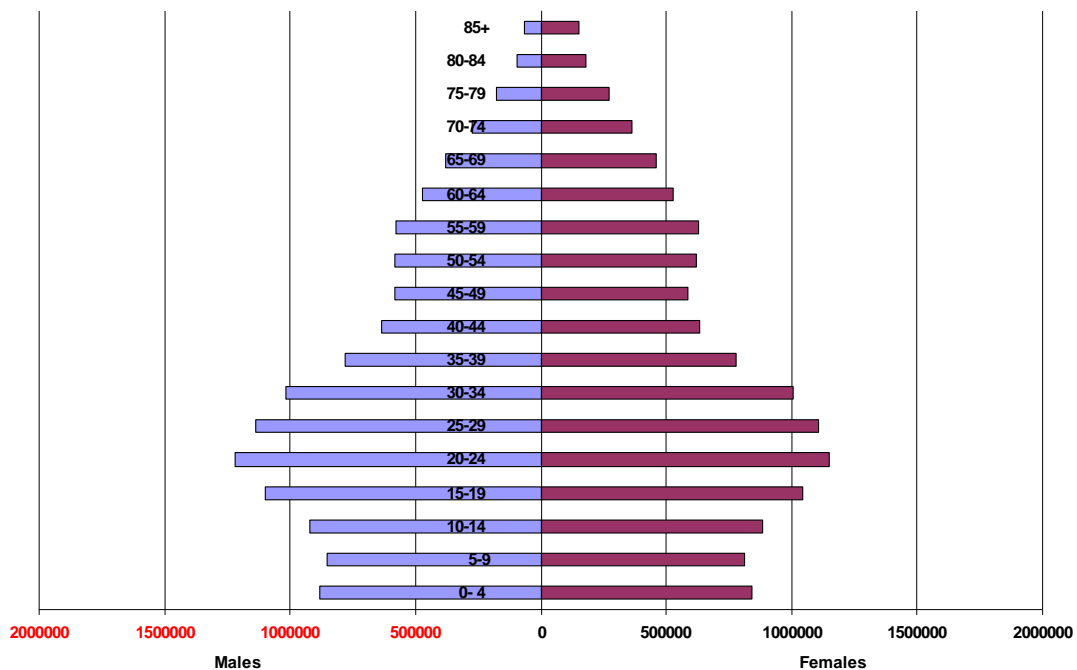
- CNDDB, 2005
- California State Parks Natural Resources Baseline Condition Assessment, FY 2001/02
- The Birds of Año Nuevo State Natural Reserve Checklist - Revised August 2003 (San Mateo Coast Natural History Association)
- Terrestrial Mammals of Año Nuevo SNR List (DPR)

## APPENDIX K California Population 1960 - 2020

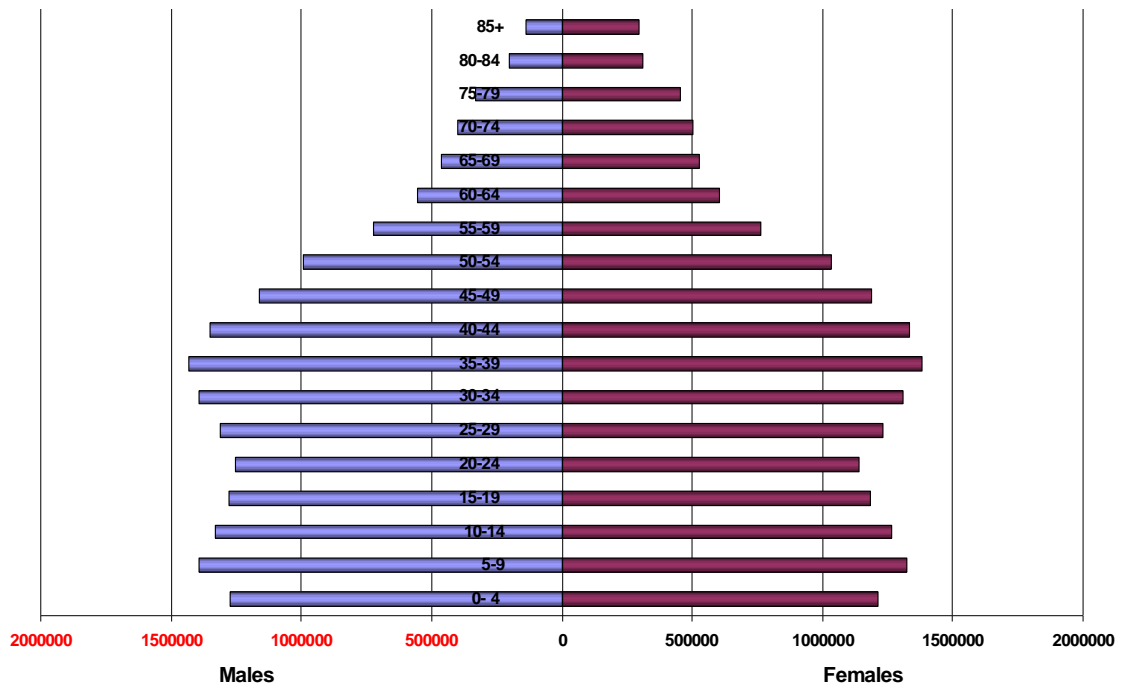
California Population 1960 (Source: CA Dept. of Finance)



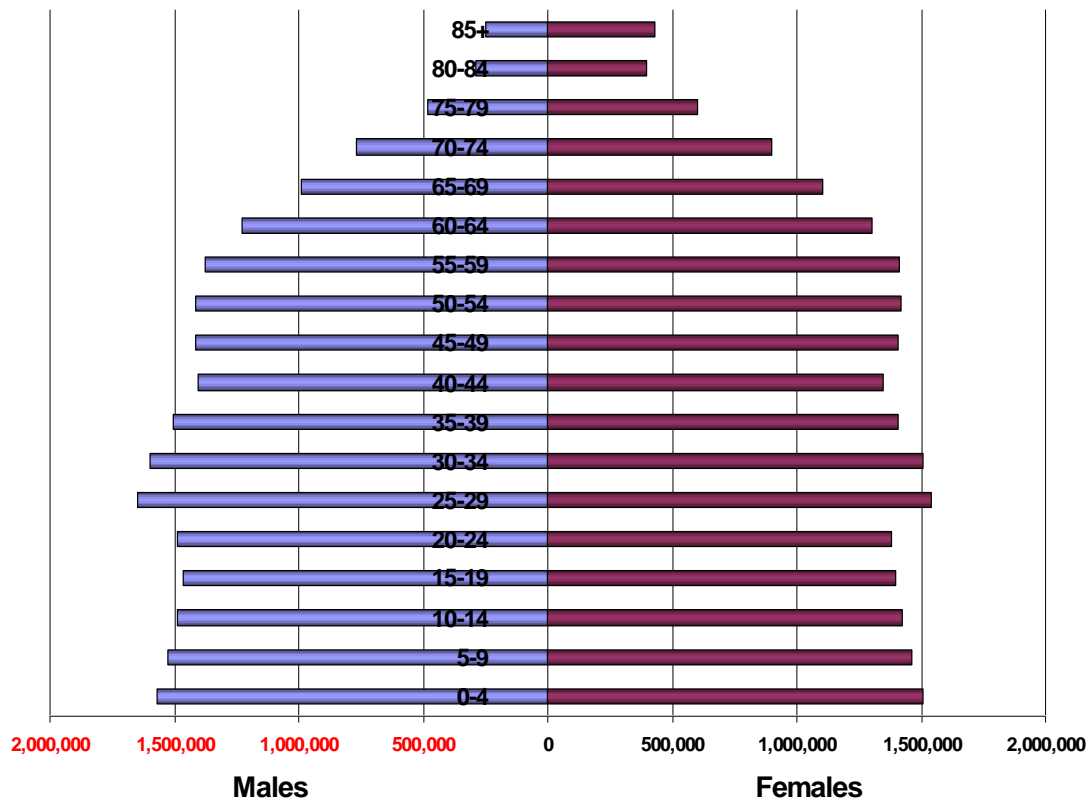
California Population 1980 (Source: UCData Center/CA Dept. of Finance)



**California Population 2000** (Source: CA Dept. of Finance)



**California Population 2020** (Source: CA Dept. of Finance)



## APPENDIX L

### Acronyms and Abbreviations

ABAG	Association of Bay Area Governments
ADA	Americans with Disabilities Act
AMBAG	Association of Monterey Area Governments
ANGB	Año Nuevo Groundwater Basin
BAAQMD	Bay Area Air Quality Management District
bgs	Below ground surface
BLM	United States Bureau of Land Management
BMP	Best Management Practice
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CCNM	California Coastal National Monument
CCRWQCB	Central Coast Regional Water Quality Control Board
CAL FIRE	California Department of Forestry and Fire Protection
CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
CNDDDB	California Natural Diversity Data Base
CNPS	California Native Plant Society
CRHF	Cascade Ranch Historic Farm
CRHP	California Register of Historic Places
CSP	California State Parks
CZMA	Coastal Zone Management Act
DOM	Department Operations Manual
DPR	California Department of Parks and Recreation
DWR	California Department of Water Resources
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
ESU	Evolutionary Significant Unit
GGNRA	Golden Gate National Recreation Area
LCP	Local Coastal Program
MPA	Marine Protected Area
MROSD	Midpeninsula Open Space District
NMFS	National Marine Fisheries Service
NOP	Notice of Preparation
NRHP	National Register of Historic Places
PCA	Pescadero Conservation Alliance

POST	Peninsula Open Space Trust
PRC	Public Resources Code
RWQCB	Regional Water Quality Control Board
SB	State Beach
SCMTD	Santa Cruz Metropolitan Transit District
SFBAB	San Francisco Bay Air Basin
SMCNHA	San Mateo Coast Natural History Association
SP	State Park
SNR	State Natural Reserve
SWRCB	State Water Resources Control Board
TPL	The Trust for Public Land
USACOE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VCM	Visitor Capacity Management
WAP	Wildlife Action Plan

## APPENDIX M

### Glossary

**Access (Egress/Ingress)** – The ability to enter a site (ingress) from a roadway or trail and exit a site (egress) onto a roadway or trail by vehicle, walking, bike, horse, etc.

**Accessibility (for people with disabilities)** – Under the Americans with Disabilities Act of 1990, state and local governments that construct new buildings and facilities, or make specific alterations to existing buildings, facilities and programs, must make them accessible. Title II requires a public entity to ensure that persons with disabilities are not excluded from services, programs, and activities because existing building and facilities are inaccessible. Beyond Federal law, the state has established standards for accessibility in the California Building Code. Title I and Title III would also be applicable. See Americans with Disabilities Act of 1990.

**Adaptive Use** – Use of a historic structure for a purpose other than that for which it was originally intended. This may require alterations to a structure's interior while maintaining the original exterior appearance.

**Alluvium** – Sand, gravel, silt, and clay deposited by rivers and streams in valley bottoms.

**Americans with Disabilities Act of 1990 (ADA)** – Ensures equal access to all users of public (and private) facilities and programs. This federal civil rights legislation for persons with disabilities passed in 1990. The ADA covers a wide range of disabilities, from physical conditions affecting mobility, stamina, sight, hearing, and speech, to conditions such as emotional illness and learning disorders. The ADA also addresses access to the workplace. See Accessibility.

**Aquifer** - A layer of water-bearing permeable rock, sand, or gravel capable of providing significant amounts of water to wells or springs. The upper boundary of the topmost aquifer is known as the water table. Some areas have several aquifers, each capped on top by an impervious layer (aquitard). If the recharge area is elevated higher than the capping layer, the water may be under considerable pressure, and flowing or Artesian wells may be likely.

**Buffer** – An area or strip of land separating two distinct and/or incompatible land uses or zones, which acts to soften or mitigate the effects of one land use on another. It should function as a barrier for both vision and sound.

**California Environmental Quality Act (CEQA)** – The California Environmental Quality Act, Public Resources Code Section 21000 et. seq.; Title 14, California Code of Regulations Section 15000 et. seq. CEQA is a statute that requires state and local agencies to identify the significant

environmental and historical impacts of their proposed actions and to avoid or mitigate any adverse impacts, if feasible.

**California State Park and Recreation Commission** – Established in 1927 to advise the Director of Parks and Recreation on the recreational needs of the people of California. The commissioners are appointed by the Governor and conduct public hearings on naming, classification and the approval of general plans (and amendments) for State Park System units.

**Clay** – A particle of sediment less than 1/256 of a millimeter in diameter. Also, a family of platy silicate minerals that commonly form as a product of weathering.

**Concessions** – A contract with persons, corporations, partnerships, or associations for the provision of products, facilities, programs and management and visitor services that will provide for the enhancement of park visitor use, enjoyment, safety, and convenience. Concessions may be for food service, overnight accommodation, equipment rentals (canoes, raft, skis), gift stores, etc.

**Cultural Landscape** – a geographic area (including both cultural and natural resources and the wildlife or domestic animals therein), associated with a historic event, activity or person or exhibiting other cultural or aesthetic values. There are four general types of cultural landscapes, not mutually exclusive: historic sites, historic designed landscapes, historic vernacular landscapes, and ethnographic landscapes.

**Direct Impacts** – Primary environmental effects that are caused by a project and occur at the same time and place.

**Environment** – The California Legislature defined 'environment' to refer to "the physical conditions which exist within the area which will be affected by a proposed project, including land, air, water, noise, objects of historic or aesthetic significance."

**Environmental Analysis** – The task of addressing the potential impact of any given plan or development project on the state's environment, an analysis that can range across any number of topics including air pollution, toxins, and impacts on plants, animals and historical resources.

**Environmental Gradient** – a gradual and continuous change in communities and environmental condition

**Environmental Impact Report (EIR)** – An informational document prepared by the lead agency responsible for carrying out a project as part of the CEQA public review process that describes and analyzes a project's potential significant environmental effects and discusses ways to mitigate or avoid



those effects. See California Environmental Quality Act, Tiered Approach/Tiering.

**Evolutionary Hotspot** – A geographical area of rapid diversification of mammals. The rapid process of developing new species through evolutionary processes can generate and sustain biological diversity.

**Evolutionary Significant Unit (ESU)** — A population or group of populations of salmon that 1) is substantially reproductively isolated from other populations and 2) contributes substantially to the evolutionary legacy of the biological species. (This concept is used by National Marine Fisheries Service in its administration of the ESA for anadromous salmon populations.)

**Exotic Species (or alien, non-native or non-indigenous species)** – A species occurring in an area outside of its historically known natural range that has been intentionally introduced or has inadvertently penetrated the system. Also known as introduced, non-native, non-indigenous or ornamental species. See Non-native Species.

**General Plan** – A document providing broad public policy and programmatic guidance regarding development and management of an individual unit of the State Park System, essential to the managers, staff and stakeholders. A General Plan is sometimes called a “comprehensive plan” or “master plan.” See Master Plan.

**Global Warming** – An increase in the near surface temperature of the Earth. Global warming has occurred in the distant past as the result of natural influences, but the term is most often used to refer to the warming predicted to occur as a result of increased emissions of greenhouse gases.

**Gravel** – All sedimentary particles (rock or mineral) larger than 2 millimeters and smaller than 64 millimeters in diameter.

**Greenhouse Gas** – Any gas that absorbs infra-red radiation in the atmosphere. Greenhouse gases include water vapor, carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), halogenated fluorocarbons (HCFCs), ozone (O<sub>3</sub>), perfluorinated carbons (PFCs), and hydrofluorocarbons (HFCs).

**Guidelines** – General statements of policy direction around which specific details may later be established.

**Habitat** – The physical location or type of environment in which an organism or biological population lives or occurs, often characterized by a dominant plant form or physical characteristic (e.g., the oak-savanna, wetland, or a coastal habitat).

**Historic Context** – An organizing framework for interpreting history that groups information about historical resources sharing a common theme, geographic area, or chronology. The development of 'historic context' is a foundation for decisions regarding the planning, identification, evaluation, registration, and treatment of historical resources based upon comparative historic significance.

**Historic District** – A geographic area that contains a concentration of historic buildings, structures, or sites united historically, culturally, or architecturally. Historic districts are defined by precise geographic boundaries.

**Historic Resource(s)** – Any object, building, structure, site, area, place, record, or manuscript which is historically significant or which is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, archaeological or cultural history of California.

**Holocene** – An epoch of the Quaternary Period, from the end of the Pleistocene, approximately 8,000 years ago to the present time.

**Indirect Impacts** – Also referred to as secondary effect, indirect impacts are caused by a project and occur later in time or at some distance from the project.

**Interpretation** – A mission-based communication process that forges emotional and intellectual connections between the interests of the audience and the meanings inherent in the resource.

**Interpretive Activities** – Hikes, talks, tours or demonstrations that provide the participants with information and inspiration on a given natural or cultural resource. Participants learn and discover new ideas or concepts about the subject.

**Lead Agency** – The governmental agency responsible for compliance with CEQA for a proposed project. Generally, it is the agency with the broadest permit discretion for the project or the agency actually carrying out the project. For example, California State Parks is the Lead Agency for Departmental projects, and has the authority to approve its own projects, even though permits may also be required from other agencies. See California Environmental Quality Act (CEQA).

**Lifeways** – A technical term for a customary manner of living; a way of life or the traditional lifeways of a tribal society.

**Liquefaction** - In cohesionless (sand and silt) soil, the transformation from solid to a liquid state due to increased pore water pressure and resulting reduction of effective stress (loss of soil strength). Often induced by earthquake shaking.

**Management Plans** – In California State Parks, management plans define the objectives, methodologies, and/or designs regarding how management goals will be accomplished. Occurring on an as-needed basis, they are typically focused on specific management topics, goals, or issues. Depending on their focus, the plans can apply to all or part of a unit. Management plans are consistent with system-wide plans and policies, and with the unit's general plan. See Specific Plan.

**Master Plan** – Master plans are tangible statements of where the park is now, what it should be in the future and what is required to get there. While circumstances vary from place to place, the decision to develop a master plan is often determined by the need to understand the current conditions of the park, to generate and build community interest and participation, to create a new and common vision for the park's future, and/or to develop a clear and solid set of recommendations and implementation strategies. See General Plan.

**Mitigate, Mitigation** – To ameliorate, alleviate, or avoid to the extent reasonably feasible – usually impacts to the environment associated with a project or undertaking. According to CEQA, mitigation for environmental impacts include: (a) avoiding an impact by not taking a certain action or parts of an action; (b) minimizing an impact by limiting the degree or magnitude of the action and its implementation; (c) rectifying an impact by repairing, rehabilitating or restoring the environment affected; (d) reducing or eliminating an impact by preserving and maintaining operations during the life of the action; (e) compensating for an impact by replacing or providing substitute resources or environments. Refer also to Section 106 of the National Historic Protection Act.

**Mitigation Measure** – Under the California Environmental Quality Act (CEQA), when an environmental impact or potential impact is identified, measures must be proposed that will eliminate, avoid, rectify, reduce or compensate for those environmental effects.

**Multi-use or Multi-purpose Trail** – An appropriately surfaced trail intended as a circulation connection for a variety of uses (bicycle, hiking, pedestrian).

**Native Species** – A plant or animal that is historically indigenous to a specific area.

**Non-native Species** – Introduced species or exotic species; refers to plants and animals that originate in other regions of the world and are brought into a new region, where they may dominate the local species or in some way negatively impact the environment for native species. Also known as non-indigenous species. See Exotic Species.

**Orographic** – Ascending airflow caused by topography such as mountains.

**Pleistocene** – An epoch of the Quaternary Period, after the Pliocene of the Tertiary and before the Holocene. It began 1.6 million years ago and lasted until about 8,000 years ago (Holocene). Synonym: ice age; glacial epoch.

**Population bottleneck** – [Evolution] Genetic drift that occurs as a result of a drastic reduction in population by an event having little to do with the forces of natural selection. (Parker, Sybil, ed. McGraw-Hill Dictionary of Bioscience. New York: 1997). When a population is small, this “genetic drift” can eliminate gene variations that might have helped the species withstand future pressures on the population, such as climate change or diseases.

**Province** – A broadly defined geographical area. It is a term that helps predict where plant species can be expected to grow.

**Public Resources Code (PRC)** – California law that addresses natural, cultural, aesthetic, and recreational resources of the State, in addition to the State Constitution and Statutes.

**Quaternary** – The most recent period of the Cenozoic era, encompassing the time interval of 1.6 million years ago through today. See geologic time scale.

**Riparian** – (land or area) – The strip of land adjacent to a natural watercourse such as a river or stream. Often supports vegetation that provides fish habitat when growing large enough to overhang the bank.

**Runoff** – That portion of rainfall or surplus water that does not percolate into the ground and flows overland and is discharged into surface drainages or bodies of water.

**Sand** – Loose particles of rock or mineral that range from 0.0625-2.0 millimeters in diameter.

**Scenic Corridor** – A transportation corridor, bikeway or waterway of outstanding scenic beauty, warranting special scenic conservation treatment.

**Significant Effect** – A substantial, or potentially substantial, adverse change in the environment.

**Silt** – Loose particles of rock or mineral that range from 0.002-0.0625 millimeters in diameter.

**Speciation** – The evolutionary process by which new biological species arise.

**Specific Plan** – A tool for detailed design and implementation of a defined portion of the area covered by a General Plan. Specific plans put the provisions of the local general plan into action.

**Stakeholder** – Group or individual who can affect, or is affected by, the achievement of the jurisdiction or organization's mission; examples include managers, employees, policy makers, suppliers, vendors, citizens, users, community activists, businesses, and community groups; and who should have a right to participate in the decision-making process.

**Sustainable Design** – To locate, design, reconstruct, construct, rehabilitate, renovate, operate, and maintain built environments that are models of energy, water, and materials efficiency, while providing healthy, productive, and comfortable habitable environments and long term benefits. This design approach is sometimes called "green design" or "green technology."

**Tiered Approach (Tiering)** – In General Plans, used to meet the requirement of CEQA. The first tier EIR will be prepared for the general plan. Subsequent management plans, area development plans, and specific project plans, implementing the general plan may be subject to additional environmental review (second and third tiers, etc.) The degree of specificity will reflect the level of detail in the general plan and subsequent plans. See California Environmental Quality Act, Environmental Impact Report, and General Plan.

**Unit Data File (UDF)** – In California State Parks, the working file that contains an organized body of information about a unit, and references the location of other information. It acts as an organized library of both unit data and the status of current issues.

**Viewshed** – The total area within a view from a defined observation point.

**Vision Statement** – A vision statement is a compelling image (description) of a desirable state of reality made possible by accomplishing the mission in a way that is consistent with the core values of key stakeholders. The vision statement is an inspiring view of the preferred future.

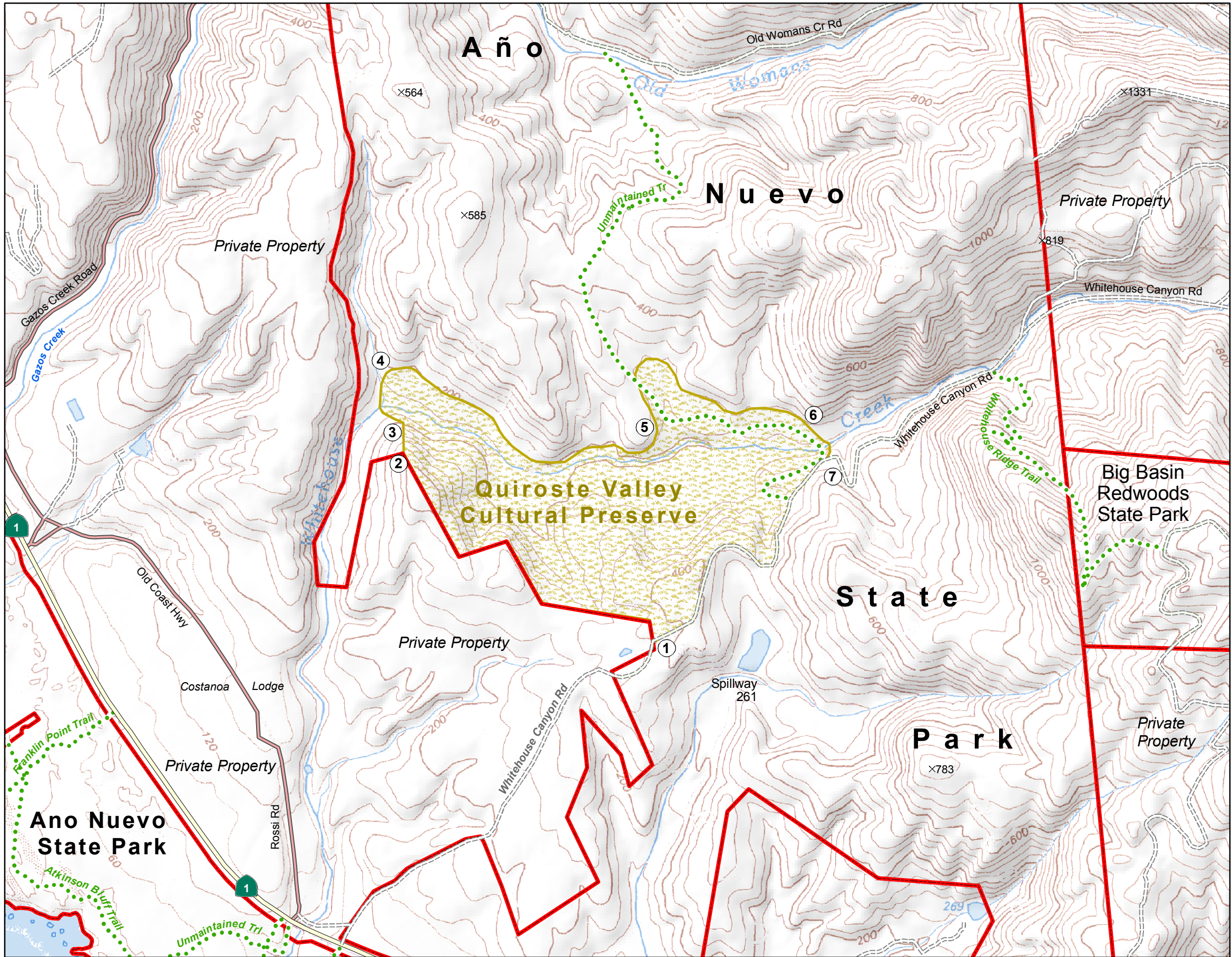
**Watershed** – The total area above a given point on a waterway that contributes water to its flow; the entire region drained by a waterway or watercourse that drains into a lake, reservoir, or other body of water. A watershed may, and often does, cover a very large geographical region.

## **APPENDIX N**

### **Approved Preserves**

The following maps represent an official action of the State Park and Recreation Commission taken on October 31, 2008: Resolution No. 29-2008 added a Cultural Preserve, to be called the *Quiroste Valley Cultural Preserve*; Resolution No. 30-2008 added a Natural Preserve, to be called the *Año Nuevo Coast Natural Preserve*.





# QUIROSTE VALLEY CULTURAL PRESERVE (Approximately 225 ACRES)

**Quiroste Valley Cultural Preserve**, adopted by the General Plan as part of a larger concept to consolidate Año Nuevo State Natural Reserve, located west of State Highway 1, and Año Nuevo State Park, located on the east side of State Highway 1.

The Cultural Preserve subunit will provide protection to the significant cultural resources and landscape found in Quiroste Valley. It was the site of a large Ohlone Indian Village of the Quiroste. In 1769, the Portolá Expedition were greeted by the Quiroste and rested here. They called the village "Casa Grande" after a large round dance house that was present. Numerous archeological sites exist within the valley.

**BOUNDARY DESCRIPTION:**  
Below is a verbal description of the boundary, corresponding to the map display. **All boundaries, distances directions, and acreage are approximate.** Elevations are based on USGS 7.5 minute, 1:24,000 scale topographic map.

Quiroste Valley Cultural preserve encompasses a naturally occurring valley along Whitehouse Creek in Año Nuevo State Park. The following numbered descriptions correspond to markers on the map.

- ① Beginning at the intersection of Whitehouse Canyon Rd and the boundary of Año Nuevo State Park, follow the State Park boundary to the northwest for 4,500' to map marker 2.
- ② Head north for 360' to the 200 foot elevation contour, map marker 3.
- ③ Head northwest 360' to Whitehouse Cr, at the confluence with the unnamed creek, continue north along creek for about 550' to the 200' elevation contour.
- ④ Head southeasterly, following the 200' contour for about 3,900' to marker 5.
- ⑤ Head northwest 300', climbing to the 280' contour, then follow this contour northerly, then easterly for 3,000' to map marker 6.
- ⑥ Head southeasterly down-slope, cross Whitehouse Cr, and continue up-slope to the intersection of Whitehouse Canyon Rd, approximately 600' in distance.
- ⑦ Head southwesterly for approximately 3,800' along Whitehouse Canyon Road, ending at marker 1, at the boundary of the Año Nuevo State Park.

Quiroste Valley Cultural Preserve adopted by California State Parks and Recreation Commission Resolution 29-2008, October 31, 2008.

**Legend**

- State Park Boundary
- Quiroste Valley Cultural Preserve
- Map markers corresponding to Quiroste Valley Cultural Preserve boundary descriptions above.

Contour Interval: 40'; 20' supplemental  
Representative Fraction 1:15,000

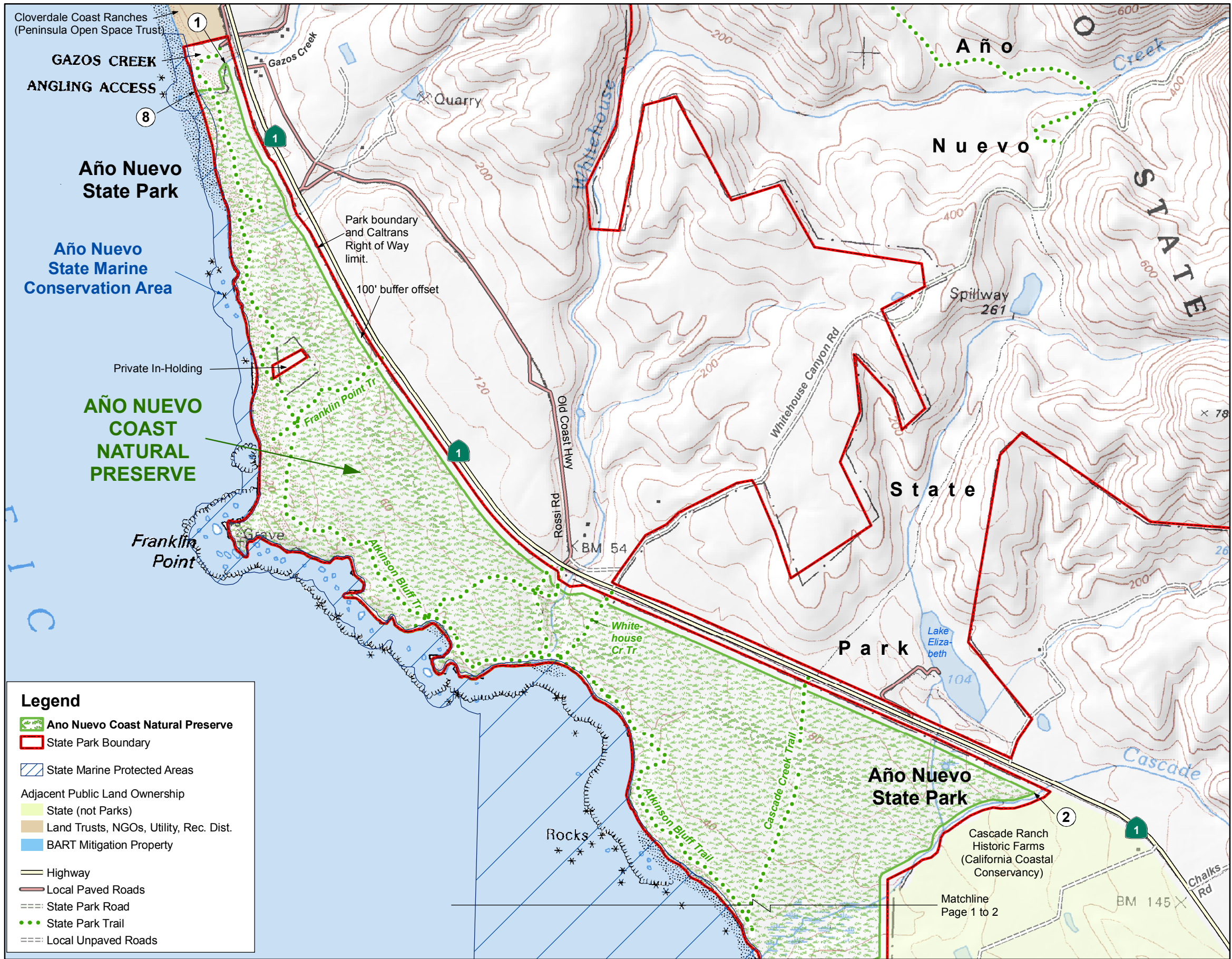
Miles  
0 0.2 0.4

Feet  
0 1,000 2,000

Drawn by: Alan Kilgore  
Checked by: Dave Keck

**Park Location**





**Legend**

Año Nuevo Coast Natural Preserve

State Park Boundary

State Marine Protected Areas

Adjacent Public Land Ownership

State (not Parks)

Land Trusts, NGOs, Utility, Rec. Dist.

BART Mitigation Property

Highway

Local Paved Roads

State Park Road

State Park Trail

Local Unpaved Roads

## AÑO NUEVO COAST NATURAL PRESERVE (Approximately 925 ACRES)

**Año Nuevo Coast Natural Preserve**, defined by the General Plan as part of a larger concept to consolidate Año Nuevo State Natural Reserve, (west of State Highway 1), and Año Nuevo State Park, (east of State Highway 1) into a single State Park Unit. The Natural Preserve subunit is designed to provide the highest level of protection to sensitive natural resources.

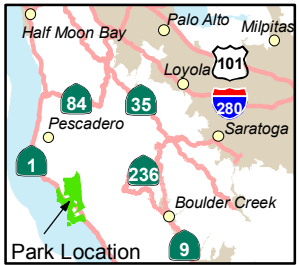
### BOUNDARY DESCRIPTION:

The following description of the preserve boundary corresponds to the map display. **All boundaries, distances, and acreages are approximate.**

Año Nuevo Coast Natural Preserve encompasses the northern two-thirds of the coastal portion of this State Park. Not included in the Natural Preserve are the Gazos Cr. Fishing Access, the area within 100' of the eastern boundary, the area surrounding staff housing, an in-holding north of Franklin Point, and the southern one-third of the coastal unit around the interpretation and education facilities.

- ① See Marker 1, Page 1 of 2. Beginning at the northeast corner, the proposed Natural Preserve boundary extends southward, parallel to State Highway 1, and 100' offset to the southwest, toward the interior of the State Park away from the Caltrans Right of Way for a distance of 14,200', to Marker 2.
- ② See Marker 2, Page 1 of 2. At Cascade Cr, the Natural Preserve boundary heads in a westerly and southerly direction, continuing parallel to the State Park boundary, 100' to the interior of the State Park property, and continuing for 6,177' to Marker 3, on Page 2 of 2.
- ③ See Marker 3, Page 2 of 2. The boundary heads southwest 2,040' across Green Oaks Creek, then south southeast for 750', then east, then east and north east for 1,100', then southeast for 850' to Marker 5, forming an exclusion around the area indicated by Marker 4.
- ④ See Marker 4, Page 2 of 2. This 59 acre area contains existing staff housing, and proposed group tour staging areas. It is outside the Natural Preserve boundary.
- ⑤ See Marker 5, Page 2 of 2. The Natural Preserve boundary again follows parallel to the State Park Boundary, 100' offset to the interior for 2,190' to the southeast, then 1,320' to the northeast to Marker 6.
- ⑥ At Marker 6, Page 2 of 2, the Natural Preserve boundary follows the unpaved road to the southeast for 1,280' to Marker 7.
- ⑦ At Marker 7, Page 2 of 2, the Natural Preserve boundary is coincident with the western State Park Boundary, extending north along the coastline (mean high tide) for 32,090' to the mouth of Gazos Cr at Marker 8.
- ⑧ At Marker 8, Page 1 of 2, the boundary heads east and north 710', returning to the beginning at Marker 1.
- ⑨ Marker 9, Page 2 of 2. All of Año Nuevo Island is included in the Natural Preserve (13 acres).

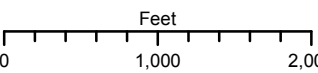
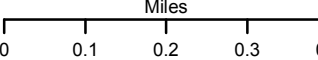
Año Nuevo Coast Natural Preserve adopted by California State Park and Recreation Commission Resolution 30-2008, October 31, 2008.



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Contour Interval: 40'; 20' supplemental  
Representative Fraction 1:15,000



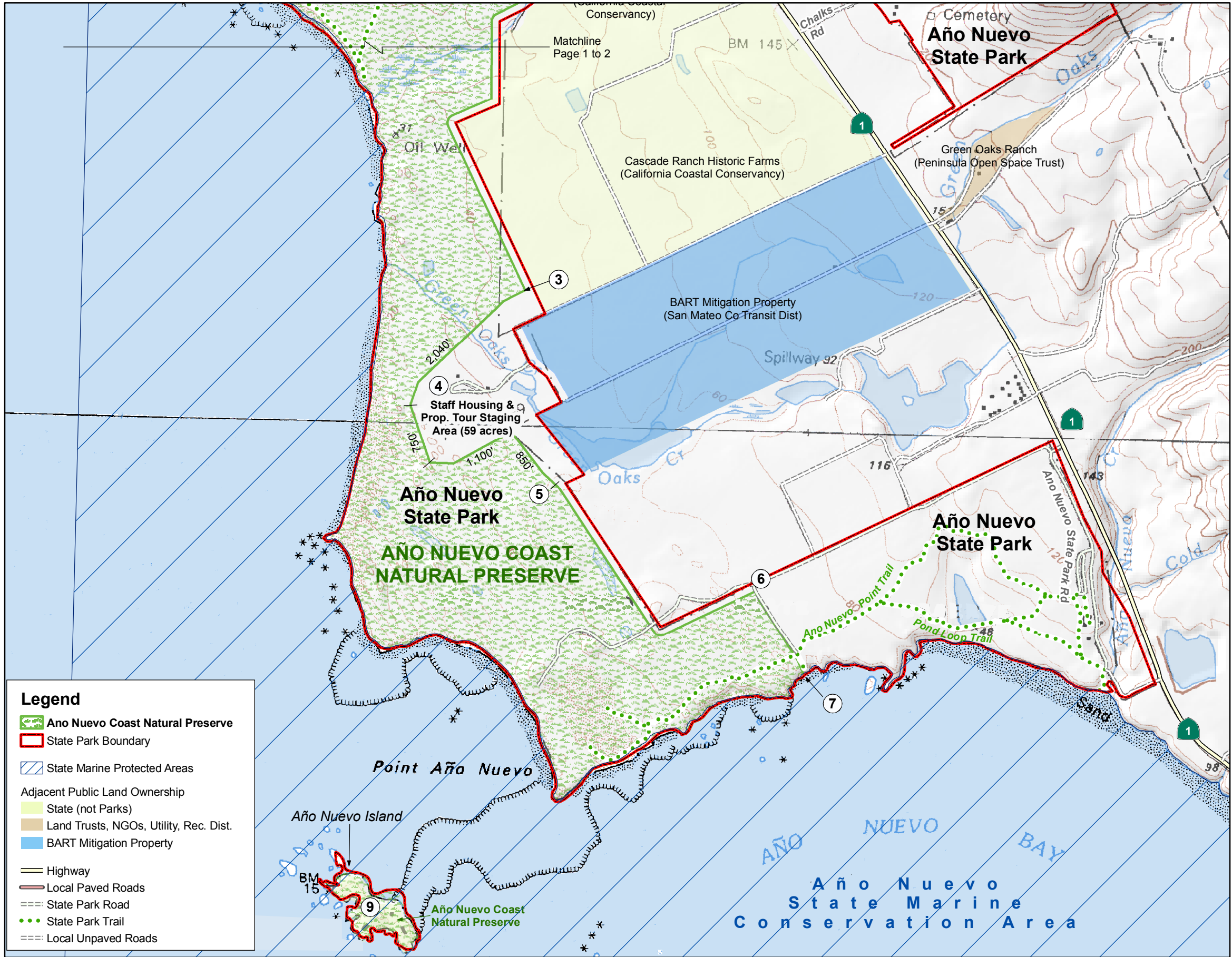
Drawn by: Alan Kilgore  
Checked by: Dave Keck



AÑO NUEVO STATE PARK  
AÑO NUEVO COAST NATURAL PRESERVE

Map Sources: Park Unit boundaries: California Dept. of Parks and Recreation, adjusted to San Mateo County Assessor's parcel map.  
Año Nuevo State Marine Conservation Area: Calif. Dept. of Fish and Game. May, 2007  
Background topographic map: US Geological Survey 7.5' topographic map series. Adjacent Public Land Ownership: GreenInfo, 2008.





# AÑO NUEVO COAST NATURAL PRESERVE (Approximately 925 ACRES)

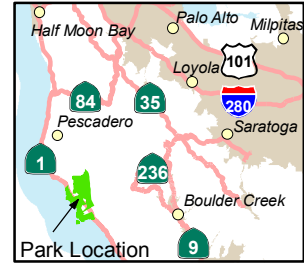
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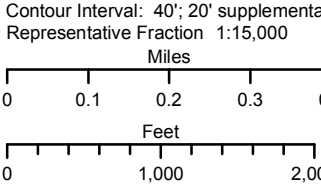
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Año Nuevo Coast Natural Preserve adopted by California State Park and Recreation Commission Resolution 30-2008, October 31, 2008.



1 Map markers corresponding to Año Nuevo Coast Natural Preserve boundary descriptions above.



Drawn by: Alan Kilgore  
Checked by: Dave Keck